REPLACEMENT SHEET
Appln. Filing Date: April 19, 2001
Title: PEPTIDE SEQUENCES SPECIFIC FOR THE HEPATIC STAGES OF P. FALCIPARUM BEARING EPITOPES CAPABLE OF STIMULATING THE T LYMPHOCYTES

CAA gln

GAA glu

leu

arg

CGT

AGA

GAG

GAA glu

lys

AAA

CAA gln

GAA glu

asp

Inventor(s): Claudine Guerin-Marchand et al. Appln. No.: 09/837,344 Sheet 1 Sheet 1 of 4

GATasp

CAA gln

AGC ser

GAA

CAA gln

1-phase Translation

LSN.3'STOP ->

GAA glu

		TTG	len	CAG		TA7	asp	<u>)</u>)	CAA	gln)	CTT	Jell	5) •	GAA
A linear		AAG	lys	GAG	nlg	AGC	2 4 5	;)	GAA	glu)	AGA	arg	0	AAA
		GAA	lys glu lys	CAA	arg leu ala lys glu lys leu gln glu / 51	CAA	gln ser	D	TTA	leu glu		GAT	asp	L .	TTA GAA CAA GAG AGA CGT GCT AAA GAA
		AAA	lys	TTA	len	GAA AAG TTG CAA GAA CAA	gln	: 0	GAT	gln glu gln gln ser asp	•	CAA	gln	;)	CGT
TAT		GCT	ala	AAG	lys	GAA	glu	5 0	AGC	ser		GAA	glu		AGA
AAAC		CGT	leu glu gln glu arg arg ala 91 / 31	GAA	glu	CAA	gln	: 	CAA	gln		TTA	leu	•	GAG
. ATG		AGA	arg	AAA	lys	TTG	leu	} }	CAA	gln		GAT	asp	•	CAA
CAAGAACAACAA ATGAAACTATAA	-	GAG	glu	GCT	ala	AAG	1 \ S		GAA	glu		AGC	Ser		GAA
	← !	CAA	gln 11	CTT	leu 51	GAA GAA	glu	71	CAA	gln	91	CAA	gln	111	TTA
۱AGAA	. _	GAA	glu /3	AGA	arg/	AA (1 \ S	· _	TTG	leu	\	CAA	gln	_	GAT
Š	31.	CTA	leu 91	GAT	151	CCT	ala	211	₹	l y s	271	GAA	glu	331 7	AGC
1482 b.p.		GAT	gln ser asp	CAA	glu gln	GAG AGA CTT	leu		GAA	lys glu		TTG CAA	gln)	GAG CAG CAA AGC GAT
.482		AGC	ser	GAA	glu	AGA	arg)	AAA	lys		TTG	leu		CAG
a)		CAA	gln	T	en	GAG	glu		Ŋ	la		AG	γS		GAG
		CAA	gln 1	GAT	asp 41	CAA CAA	gln	61	CGT	arg	81	GAA	glu	101	CAA
NA sequenc	Η.	GAA	gluging / 21	AGC	ser /	GAA	glu	`	AGA	arg	\	AAA	lys	_	TTA
NA	_	¥.	11 11	¥.	ln 21	Ϋ́	eu.	.81	;AG	l'u	41	CT	ıla	01	١٩G

112 60 0 611

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	CAA	gln		TTA	len		GAG	glu		CCT	ala		AAA	lys		TTA	len		CAA	gln		ATA	ile
	CAA	gln		GAT	asb		CAA	gln		CGT	arg		AAA	lys		CGT	arg		CAT	his		ATA	ile
	GAA	glu		AGC	ser		GAA	glu		AGA	arg		YCG	thr		GGT	gly		CCA	pro		TCT	ser
	CAA	gln		CAA	gln		TTA	len		GAG	glu		GAT	asp		TAT	tyr		ATA	ile		ATG	met
	TTG	len		CAA	gln		GAT	asp		CAA	gln		GCT	ala		TTA	len		TAT	tyr		GAA	
	AAG	lys		GAA	glu		AGC	ser			glu		AAG				asp			tyr		AAG	
	GAA	glu		S	gln		CAA	gln		TTA	len		AGG	arg			glu			gly		JCC	
	AAA	lys		T 16	len		CAA	gln		GAT	asp		CAA	gln		GCA			CGT	arg		GAT	
	GCT	ala		AAG	lys			glu			ser		GAA			TTA				glu		AGA	
	CGT	arg		GAA	glu		CAA	gln		S	gln		TTA	leu		ATA	ile			asn		AGT	ser
		arg		AAA				len			gln			asp		G				glu		AAT	
131	GAG	glu	TOT	SCT	ala	171	AAG	lys	191	GAA	glu	211	AGA	arg	231	GGA	gly	251	TCA	ser	271	999	gly
\		gln		CT	len	_		glu			gln					CAT			CCA		_	AGA	a
391	GAA	glu	45T	AGA	arg	511	AAA	lys	571	TTG	len	631	CAG	gln	691	GAA	glu	751	CTT	leu	811	AAC	asn
	TTA												GAG									GAC	
	GAT	asb																					
	AGC												TTG									CCT	
121	CAA	gln	141	TTA	leu	161	GAG	glu	181	GCT	ala	201	AAG	lys	221	GAA	glu	241	SCA	pro	261	TTA	len
		gln																					
361	GAA	glu	174	AGC	ser	481	GAA	glu	541	AGA	arg	601	AAA	lys	661	AAT	asn	721	GAA	glu	781	TCT	ser

FIGURE 10B

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GAT asp CAA GAA glu TTA AAA lys AAA lys TCT AAA GAA glu CAA CAT his phe AAT asn GAA glu AAA AAA lys asp asp GAT asp **GAT** phe GAT GAA glu ATA ile GAT asp AAT asn AAT asn AAT asn GAA glu GAT AGG AAA AAA lys GAA glu lys GACasp leu AAT asn val CGA arg CAA gln TCA ser CCA GAT asp TAT GAG glu ser 77 **GGA** GAA CAA ATA ile AAA lys glu GAT asp gly TCT ser leu GAA glu CCA GACasp GTG val GAA glu TTT phe leu AAA lys GAA AAT asn asp asn TAT tyr GAT GAA glu GTA val GAA glu TCA AAT asn CCT ser AAT asn ala AAG TCA len GAT asp ser thr ser ser GAA GAA GAA his asp GGA GAA GAT leu CAT GAA glu GAG glu GAC GGA gly GAA AAT asn TAT CAA gln tyr GAA glu ile GAT asp AAA TAT asp 381 asn leu asp GAA GGA GAT ser ile [081

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	AAA	lys tyr lys asn asp lys gln val asn lys glu lys glu lys 1411 / 471	GAT	asp	•		
	GAA	glu	GTG	Val			
	AAG	lys	ATC	ile		TAT	tyr
	GAA	glu	CAG	gln)	ATA	ile
	AAG	lys	TTA	leu		GTT	val
	AAT	asn	ATT	ile		AAG	lys
	GTT	val	GAA	nlg	١	TAA	OCH
	CAG	gln	AAT	asn		CTA	len
	AAG	lys	GAC	asb	•	AAA	lys
	GAT	asb	GGA	gly	•	ATG	met
	AAT	asn	GAC	asb		TT	phe
451	AAA	lys 471	E	phe	491	TAT	tyr
_	TAT	tyr /	ATA	ile	` .	AAA	lys
1351	AAA	lys 1411	CAT	his	1471	ACT	thr
	AAA	lys	TTT	phe		ATA	ile
•	ATT	ile	TTG	len	-	GAT	asb
	CAT	his	TCA	ser		GAA	glu
44	GAG	glu 461	AAA	lys	481	TCT	ser
<u>`</u>	GAT	asp /	ATA	ile	\ 1	TTA	len
1371	TAT	tyr asp glu his ile lys l 1381 / 461	TTC	phe	1441	GAG	glu